DM2000VCM

Digital Production Console

DM2000VCM

Rear Panel

*Peak Meter Bridge MB2000 & Wood Side Pad SP2000 are options.

96 Inputs and 22 Buses For Glorious Surround Sound.

- Precise 24-bit/96-kHz audio and high-performance head amps.
- 96-input 22 buses (8 group buses, 12 auxiliary buses, and a stereo bus) mix capacity at 96kHz.
- Powerful channel functions with flexible control and digital patching capability.
- Eight advanced multi-effect processors plus six 31-band GEQs.
- Scene memory and auto-mix functions for efficient workflow.
- Versatile channel pairing and grouping functions enhance mixing efficiency.
- Comprehensive interface with touch-sensitive 100-mm motor faders.
- Six mini-YGDAI expansion slots for easy I/O expansion in a variety of formats.
- Compatible with both Windows or Macintosh versions of Studio Manager version2 Software, allowing your PC and Console to work together seamlessly.
- Easy integration with computer-based DAWs (Digital Audio Workstations) or digital recorders to create an advanced digital production environment.
- A comprehensive range of features for surround production, including an enhanced surround monitoring environment with bass management.
- A new dimension of production power with the addition of Yamaha VCM effects and processing.
- Included in the THX pm3™ Studio Certification Program Approved Equipment List.

OPTIONS

MB2000
Peak Meter Bridge

SP2000
Side Pad

LA1L
Gooseneck Lamp

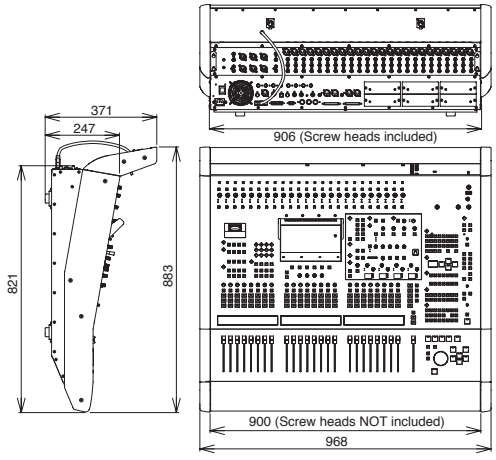
GENERAL SPECIFICATIONS

Internal processing	32bit (Accumulator=58bit)
Number of scene memories	99
Sampling frequency rate	Internal : 44.1kHz, 48kHz, 88.2kHz, 96kHz External: Normal rate 44.1kHz (-10%) to 48kHz (+6%) Double rate 88.2kHz (-10%) to 96kHz (+6%)
Signal Delay	Less than 2.3 ms CH INPUT to STEREO OUT (@fs=48 kHz) Less than 1.2 ms CH INPUT to STEREO OUT (@fs=96 kHz)
Total harmonic distortion*1 CH INPUT to STEREO OUT Input Gain=Min.	Less than 0.05%, 20Hz to 20kHz @+14dBu into 600Ω Less than 0.01%, 1kHz @+18dBu into 600Ω (@fs=48kHz) Less than 0.05%, 20Hz to 40kHz @+14dBu into 600Ω Less than 0.01%, 1kHz @+18dBu into 600Ω (@fs=96kHz)
Frequency response CH INPUT to STEREO OUT	20Hz - 20kHz, 0.5, -1.5dB, @+4dBu into 600Ω (@fs=48kHz) 20Hz - 40kHz, 0.5, -1.5dB, @+4dBu into 600Ω (@fs=96kHz)
Dynamic range (maximum level to noise level)	110dB typ, DA Converter (STEREO OUT) 108dB typ, AD+DA (to STEREO OUT) (@fs=48kHz) 106dB typ, AD+DA (to STEREO OUT) (@fs=96kHz)
Hum & noise level*2 (20Hz to 20kHz) Rs=150ohms Input Gain=Max Input Pad=0dB Input Sensitivity=-60dB	-128dBu Equivalent Input Noise -92dBu residual output noise. STEREO OUT(STEREO OUT off) -92dBu(96dB S/N) STEREO OUT(STEREO fader at nominal level and all CH INPUT faders at minimum level) -64dBu(68dB S/N) STEREO OUT(STEREO fader at nominal level and one CH INPUT fader at nominal level)
Crosstalk (@1kHz) Input Gain=Min.	80dB adjacent input channels (CH1-24) 80dB input to output
Phantom Power	+48V
Power requirements	Japan: AC100V 50/60Hz North America: AC120V, 60Hz Other Areas: AC220-240V, 50/60Hz
Power consumption	300W
Dimensions (W x H x D)	DM2000: 906 x 257 x 821mm (35.7" x 10.2" x 32.3") With MB & SP: 968 x 371 x 883mm (38.1" x 14.6" x 34.8")
Weight	DM2000: 43.0kg (94.8lbs) With MB & SP: 51.6kg (113.8lbs)

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.
*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

DIMENSIONS

unit : mm



ANALOG INPUT SPECIFICATIONS

Input terminal			Actual source impedance	For use with nominal	Input level			Connector
	PAD	GAIN			Sensitivity	Nominal	Max. before clip	
CH INPUT A/B 1-24	0	-60dB	3kΩ	50-600Ω Mics & 600Ω Lines	-70dBu	-60dBu	-46dBu	A:XLR3-31 type* B:TRS Phone Jack*
		-16dB			-26dBu	-16dBu	-2dBu	
	26				0dBu	+10dBu	+24dBu	
INSERT IN 1-24			10kΩ	600Ω Lines	-6dBu	+4dBu	+18dBu	TRS Phone Jack*
2TR IN ANALOG 1[L,R]			10kΩ	600Ω Lines	+4dBu	+4dBu	+18dBu	TRS Phone Jack*
2TR IN ANALOG 2[L,R]			10kΩ	600Ω Lines	-10dBu	-10dBV	+4dBV	RCA Pin Jack**

ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	GAIN SW	Output terminals		Connector
				Nominal	Max. before clip	
STEREO OUT[L,R]	600Ω	10kΩ Lines	—	-10dBV	+4dBV	RCA Pin Jack**
	75Ω	600Ω Lines	—	+4dBu	+18dBu	XLR3-32 type*
STUDIO MONITOR OUT[L,R]	75Ω	10kΩ Lines	—	+4dBu	+18dBu	TRS Phone Jack*
C-R MONITOR OUT LARGE[L,R]	75Ω	600Ω Lines	—	+4dBu	+18dBu	XLR3-32 type*
C-R MONITOR OUT SMALL[L,R]	75Ω	600Ω Lines	—	+4dBu	+18dBu	XLR3-32 type*
OMNI OUT 1-8	75Ω	10kΩ Lines	+18dB (default)	+4dBu	+18dBu	TRS Phone Jack*
			+4dB	-10dBu	+4dBu	
INSERT OUT 1-24	75Ω	10kΩ Lines	—	+4dBu	+18dBu	TRS Phone Jack*
PHONES	100Ω	8Ω Phones	—	4mW	25mW	ST Phone Jack**
		40Ω Phones	—	12mW	75mW	

DIGITAL INPUT SPECIFICATIONS

Terminal		Format	Data length	Level	Connector
2TR IN DIGITAL	1	AES/EBU	24bit	RS422	XLR3-31 type
	2	AES/EBU	24bit	RS422	XLR3-31 type
	3	IEC-60958	24bit	0.5Vpp/75Ω	RCA Pin Jack
CASCADE IN		—	—	RS422	D-sub Half Pitch Connector 68Pin (Female)

DIGITAL OUTPUT SPECIFICATIONS

Terminal		Format	Data length	Level	Connector
2TR OUT DIGITAL	1	AES/EBU (Professional use)	24bit	RS422	XLR3-32 type
	2	AES/EBU (Professional use)	24bit	RS422	XLR3-32 type
	3	IEC-60958 (Consumer Use)	24bit	0.5Vpp/75Ω	RCA Pin Jack
CASCADE OUT		—	—	RS422	D-sub Half Pitch Connector 68Pin (Female)

CONTROL I/O SPECIFICATIONS

Terminal		Format	Level	Connector
TO HOST	Serial	—	RS422	Mini DIN Connector 8P
	USB	USB1.1	0 V~3.3 V	B Type USB Connector
MIDI	IN	MIDI	—	DIN Connector 5P
	OUT	MIDI	—	DIN Connector 5P
	THRU	MIDI	—	DIN Connector 5P
TIME CODE IN	MTC	MIDI	—	DIN Connector 5P
	SMPTE	SMPTE	Nominal –10dB/10kΩ	XLR3-31 Type*
WORD CLOCK	IN	—	TTL/75Ω (ON/OFF)*1	BNC Connector
	OUT 1, 2	—	Nominal –10dB/10kΩ	BNC Connector
CONTROL		—	Open collector	D-Sub Connector 25P (Female)
REMOTE		—	RS422	D-Sub Connector 9P (Male)
KEYBOARD		PS/2	—	DIN Connector 6P
STORAGE CARD		—	—	SmartMedia slot
METER		—	RS422	D-SUB Connector 15P (Female)
LAMP (with MB2000)		—	0-12V	XLR4-31 Type

*1. This switch is on the rear panel.

BLOCK DIAGRAM